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SOURCE Elektrichestvo, No 4, 1953, p 91

NEW ELECTRICAL EQUIPMENT FOR MOSKVICH AUTOMOBILE

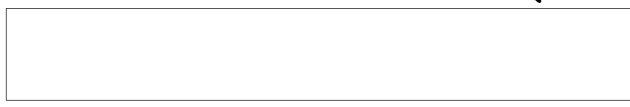
[Comment: L. V. Kopylova's "New Electrical Equipment for the Moskvich Automobile," was originally published in Avtomobil'naya i Traktornaya Promyshlennost', No 9, 1952. The following is the full text of an assigned abstract of this article which appeared in Elektrichestvo, No 4, 1953.]

The Scientific Research Institute of Automobile Instruments (NII Avtoprivorov) together with the ATE-1 plant has developed new electrical equipment for the Moskvich automobile: dc generator model G-29 with shunt excitation, and small-size relay-regulator model RR29.

This equipment replaces the three-brush generator model G-28 and should prolong battery life 2- to 2.5-fold and increase the mileage for one set of generator brushes from 15,000-20,000 to 30,000-50,000 km.

The new G-29 generator is a two-pole shunt machine, designed to operate with a single-step voltage regulator, and has the following parameters: rated power, 130 w; rated voltage, 6.5 v; rated load current, 20 amp; weight, 7.4 kg; length, 255 mm; and diameter, 100 mm. A fan located on the flywheel is used to improve cooling. The type EG-13 graphite brushes guarantee a long service life for the generator.

Limitation of current supplied by the generator is accomplished in the new relay regulator by series winding of the voltage regulator. The new-design vibrating contact system ensures satisfactory and stable operation of the voltage regulator. The reverse-current relay has one pair of silver contacts.



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The basic data for relay regulator model RR29 are as follows: rated voltage, 6.5 v; rated current, 20 amp; weight, 1.1 kg; length, 130 mm; width, 91 mm; height, 76 mm. The electrical parameters for an ambient temperature of 20°C are as follows: operating voltage, 6.0 - 6.5 v; reverse current of the relay, 0.5 - 5.0 amp. Voltage maintained by the generator: (at 3,000 rpm) is not more than 8.0 v at zero load current and 6.2-6.8 v at 20 amp load current. Speed range of the generator armature is 1,300-7,000 rpm.

This new electrical equipment has been put into series production, since operating tests on the Moskvich were passed successfully.

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